

**ORANGE COUNTY EMS AGENCY  
PARAMEDIC PHARMACOLOGY HANDBOOK**

<b>MEDICATION:</b> SODIUM BICARBONATE (Bicarb, $\text{NaHCO}_3$ )	<b>ADULT DOSE</b>	<b>PEDIATRIC DOSE</b>	<b>SIDE EFFECTS</b>	<b>PRECAUTIONS/COMMENTS</b>
<p><b>CLASSIFICATION:</b> Alkalinizing Agent</p> <p><b>MECHANISM OF ACTION:</b></p> <ul style="list-style-type: none"> <li>Chemically neutralizes acids with carbon dioxide produced as a byproduct.</li> </ul> <p><b>INDICATIONS:</b></p> <ul style="list-style-type: none"> <li>Metabolic acidosis, prolonged arrest or known renal failure.</li> <li>Ventricular dysrhythmias as a result of tricyclic overdose.</li> </ul> <p><b>DOSAGE FORM:</b></p> <ul style="list-style-type: none"> <li>50 mEq in 50 ml prefilled syringe or 44.6 mEq in 50 ml prefilled syringe</li> </ul>	<ul style="list-style-type: none"> <li>1 mEq/kg IVP then 0.5 mEq/kg every 10 minutes.</li> </ul>	<ul style="list-style-type: none"> <li>1 mEq/kg IVP then 0.5 mEq/kg every 10 minutes.</li> <li>Dilute 1:1 with NS prior to administration to neonates (0-1 month).</li> </ul>	<ul style="list-style-type: none"> <li>Alkalosis</li> <li>Volume overload</li> </ul>	<ul style="list-style-type: none"> <li>Extravasation may cause tissue necrosis.</li> <li>Avoid injecting simultaneously with epinephrine, or any other catecholamines. Alkaline solutions inactivate catecholamines.</li> </ul>